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III. SUBSISTENCE

Agriculture

241 [226] Agriculture and fishing are the principal sources of Tukuna economy. If forced to, the Tukuna will go for some time without collecting wild fruits or hunting; but the complete lack of garden products and fish simply spells misery to them.

[462] [476] The garden patch, cleared and burned out of the virgin jungle, is as a rule made exclusively by the men, often in a communal work party, *usjurí;* but some widows, without masculine aid, clear the land and plant in the *capoeira* or secondary jungle growth. Both sexes pile up the rubbish and burn it, whereas planting is carried out exclusively by women and girls. The original instrument for felling trees was the stone ax, whose appearance no one now remembers, but which, according to legend, the culture hero dyoi' stole from the demon toi"ta [tʊ|"'ta] (see page 131).

[462] [412]

The four species of major importance for the Tukuna are bitter manioc, *mandioca brava* (*Manihot utilissima*), sweet manioc, *macaxera* (*M. aipi*),[1] maize, and yam, *cará* (*Dioscorea* sp.).[2] Lacking any one of these four, the Tukuna have a bad time of it, whereas the absence of other edible tubers, such as the sweet potato, and of other plants like sugar cane, pineapple, peanut (*manduví*),[3] and so on, affects them very little.

According to legend, a solitary old woman discovered both the tree which furnished macaxera-like fruits and the art of making manioc flat cakes, beijús. On learning the secret, the men felled the tree and ate up everything; only Deer kept shoots and seeds in a basket (vatu') of which the culture hero dyoi' later robbed him (see p. 131). For this reason the Tukuna refer to a cultivated plant as a pre-Columbian possession by saying that "it first came in Deer's vatu'."

[713] [717] Formerly, only sweet manioc was known to them; apparently bitter manioc and the process of making manioc flour were introduced by the Neobraziliana.

In planting either variety of manioc, a woman goes ahead, armed with a long, heavy, rounded stake of wood with a sharpened point (about 140 cm. by 7 cm.), with which she makes holes in the ground, a female companion trailing behind to insert the plant slips into the prepared soil. This stake (paye'|"ṅ), when not in use, is kept under water near the entrance to the house or clearing, so that it will not dry out and lose weight. It is removed and dried off only on the eve of planting.

[412]

243 [773] Maize was not "in Deer's vatu'" but, according to legend, was given to the Indians by aria'na, a great coquette of the upper world, who brought it with her from one of the lower worlds, where she was once forced to sojourn against her will. (See p. 112.)

[462] The planting of maize, done preferably by men, is accompanied by a certain ceremoniousness that is not observed for any of the other plants. The kernels are placed first of all in a gourd of water. The planter then takes a little of this water in his mouth and sprays it over the kernels in order to make them more savory.

243 784 Until the plants reach a certain height he must submit to rigorous taboos. He cannot go near the fire, or eat or even touch the following fish: pirarucú (*Arapaima*

[1] Commonly known in Brazil as *aipi*.—Trans.
[2] A tuber also known as *inhame*.—Trans.
[3] *Arachis hypogaea;* commonly known as *amendoim;* T., tërtʃ.

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gigas), *tucunaré* (*Cichla* sp.), *cachorra* (*Eynedon hydrocyon*, Cast.), or *aracú* (*Leporinus* sp.). These last two are forbidden because they eat leaves. The same prohibition holds for the honey of the wild bee, *jandaíra*, and for *muzíua*, the edible larvae of Coleoptera.

The planter of maize must not touch any fish stupefacient (*timbó*) or blood, or any object the color of blood; if he should touch urucú or *genipapo*, the maize would turn red or black. One day, an Indian who had planted maize brought me a fish, a tucunaré. Later, the leaves of the maize he had planted turned yellow. To undo the evil effects of the broken taboo he had to wash his hands and arms with *envira de matamatá*, because they had touched the fish, and had to bind his arms and legs with strips of the same liana.

If a pregnant woman plants maize, the plant also becomes "enceinte," and it will produce twin ears.

Contrary to the statements of Tessmann's informants,[1] these Tukuna cultivate the peanut (manduví) just as much as the sweet potato; of the latter they raise two special types, one for the brewing of beer (*chicha*), one as a component of curare. The cultivation of the first type is post-Columbian, according to some of my informants, but the second is undoubtedly aboriginal.

They also say that a stunted type of sugar cane was "already in Deer's vatu'." The cane is little cultivated. To extract the juice it is crushed first with a club and then twisted, in the way Tessmann has described.

The banana, today of considerable economic importance, is post-Columbian, but its culture dates back several centuries. The most common varieties are poi' (large), iru' (small), and the nyëëta'rë poi' or guariba monkey banana, so called because of its red color.

Even today the Tukuna do not plant either kidney beans or broad beans. The malagueta pepper is of recent introduction; formerly only one type of pepper was known—a small, round, yellow pepper called mu'nëru ("grasshopper's head"; më'ë, generic name of peppers).

Four other plants with edible roots are cultivated in the clearings: e'ru (*ariá*; *Maranta lutea* Jacq.), also cultivated by the Neobrazilians and formerly extensively planted; maikura'ki (*maikúra*, sweet) or dya'matịna (l.g.?), the tubercles of which have a sweet taste; nakị-čane ("penis of tapir"), said to be cultivated by the Kokáma also; and a:'tatị, which is occasionally planted by the Neobrazilians of the region.[2]

Cotton (tẹ) was formerly planted more widely than today, but now one finds only a few isolated stands in the clearings, and many Indians no longer plant any at all. Cotton fell into disuse after purchased cloth began to be used for the feminine apron, *tanga*, which was originally the main product of Tukuna weavers. Other articles once made of cotton are now made of tucum fibers, such as bands for arm and leg and the sling (*tipoia*) for carrying children.

In 1941 I met with considerable difficulty in acquiring two spindles (tẹ-či'vanẹ') for the ethnographic collection at Belém do Pará. The shaft is topped by a small knob; the whorl, of turtle shell (*tracajá*, turtle; *Podocnemis* sp.), or of wood, is placed on the shaft from above.

[1] Tessmann, p. 560.
[2] Only *ariá* is identified.—Trans.